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FOLLOW-UP SURVEY OF HIGH SCHOOL VOCATIONAL GRADUATES. FINAL REPORT.

UTAH STATE RES. COORD. UNIT FOR VOC.-TECH. EDUC.

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RECORDS IN THE OFFICE OF THE UTAH STATE SUPERINTENDENT OF PUBLIC INSTRUCTION WERE SURVEYED TO DETERMINE THE EXTENT TO WHICH TERMINAL HIGH SCHOOL VOCATIONAL STUDENTS ENTERED WORK IN THE OCCUPATION FOR WHICH THEY WERE TRAINED, IN RELATED OCCUPATIONS, AND IN AREAS UNRELATED TO THEIR HIGH SCHOOL VOCATIONAL PROGRAM. ONLY 1966 GRADUATES WERE STUDIED. AVAILABLE PERSONNEL RECORDS AT WEBER STATE COLLEGE AND UTAH TECHNICAL COLLEGE WERE EXAMINED TO DETERMINE HOW MANY STUDENTS ENTERING POSTSECONDARY VOCATIONAL AND TECHNICAL PROGRAMS HAD HIGH SCHOOL VOCATIONAL TRAINING IN THE SAME OR UNRELATED FIELDS, NO HIGH SCHOOL VOCATIONAL TRAINING, OR TRAINING IN A HIGH SCHOOL INDUSTRIAL ARTS PROGRAM. FINDINGS WERE--(1) OF 2,132 STUDENTS EMPLOYED OR AVAILABLE FOR EMPLOYMENT, 30 PERCENT WERE EMPLOYED FULL TIME IN THE OCCUPATIONS FOR WHICH THEY WERE TRAINED, 18 PERCENT WERE EMPLOYED FULL TIME IN RELATED OCCUPATIONS, AND 27 PERCENT WERE EMPLOYED FULL TIME IN UNRELATED OCCUPATIONS, AND (2) OF 1,328 POSTSECONDARY STUDENTS, 533 RECORDS WERE EXAMINED, AND 795 HAD NO RECORDS. OF THE 533 STUDENTS, 64 PERCENT HAD HIGH SCHOOL TRAINING IN THE SAME FIELD, 35 PERCENT IN UNRELATED FIELDS, AND 30 PERCENT HAD INDUSTRIAL ARTS TRAINING. (PS)

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FINAL REPORT

Research Project

FOLLOW-UP SURVEY OF HIGH SCHOOL VOCATIONAL GRADUATES

V/T 02199

Research Coordinating Unit for
Vocational-Technical Education

1966 (rev.)

Statement of the Problem

One group of educators contends that better and more diversified vocational education programs should be offered in Utah's high schools. The rationale for this line of reasoning is that many high school students must be prepared to enter directly into the world-of-work, and many others must be prepared for post-secondary vocational and technical education courses.

Another group of educators maintains that high school learning experiences should be centered around general education, possibly with a vocational orientation, leaving vocational and technical skill training to post-secondary institutions or on-the-job training.

Purpose

The purpose of this survey is to provide an estimate of the extent to which:

a. Terminal high school vocational students enter the world of work in the occupation for which trained, in related occupations, and in areas unrelated to their high school vocational program.

b. Students entering post-secondary vocational and technical programs took high school vocational training in the same fields, took high school vocational training in unrelated fields; the percentage that had no high school vocational training, and the number that took a high school industrial arts program.

Methodology

a. The entry employment for terminal high school students was related to their prior vocational training through a survey of records on hand in the Office of the State Superintendent of Public Instruction. An analysis was made by school district, and the data is shown at Enclosure 1, attached. Only students graduating in 1966 were considered.

b. The survey of the high school vocational courses taken by students embarking on vocational and technical education courses at Weber State College and at the Utah Technical College at Salt Lake City was accomplished by an examination of available personnel records at these two institutions. At Utah Technical College only students entering in 1966-67 were considered, while at Weber State College the records of all presently enrolled vocational and technical education students were counted. A recapitulation appears at Enclosure 2.

Population and Sample

Weber State College was chosen as offering non-baccalaureate courses and enrolling students typical of the other colleges and of the junior colleges in Utah. Utah Technical College at Salt Lake was chosen as representative of this type of Utah post-secondary institution. Therefore, the results obtained are assumed to be representative of the results which would have been obtained if the time and money had been available to permit a survey of each of the Utah post-secondary institutions.

Limitations to Study

The survey revealed that a large number of students presently enrolled in the vocational and technical education programs at Utah Technical College at Salt Lake and Weber State College do not have high school records on file at those institutions. At Utah Technical College, 519 (68%) were without records in a total of 765 students; at Weber State 276 (49%) of 563 have no high school records available.

The cases without records were not considered statistically in computing averages and percentages.

Analysis

A linear analysis was made of the data collected to produce the following intelligence:

a. With respect to terminal Utah high school vocational students graduated in June 1966:

(1) Number employed and/or available for employment (by school district and total, Enclosure 3).

(2) Number (and percent) employed full-time in occupation for which trained (by school district and total, Enclosure 3).

(3) Number (and percent) employed full-time in an occupation related to their field of training (by school district and total, Enclosure 3).

(4) Number (and percent) employed full-time in an occupation unrelated to the field of training (by school district and total, Enclosure 3).

(5) The total (equivalent) vocational funds allocated to each Utah school district for the school year 1965-66 (Enclosure 4)

(6) The ratio of the district's vocational funds to the number of district graduates placed in the same occupation or occupation related to the area in which trained, expressed as "cost per student" (Enclosure 4)

(7) A recapitulation by districts with 75 or more "employed and/or available", by districts with from 25 to 75, and by districts with less than 25. (Enclosure 1).

(8) A recapitulation of districts with an assigned Vocational Director, and of districts without an assigned Vocational Director. (Enclosure 1)

b. With respect to the high school vocational courses previously taken by students now in Weber State College and in Utah Technical College at Salt Lake City in drafting, automobile mechanics, machine shop, office occupations, and electronics areas: (Encl. 2)

(1) Number (and percent) with previous high school training in the same field.

(2) Number (and percent) with high school training in an unrelated vocational field.

(3) Number (and percent) with high school industrial arts training.

(4) Number with no high school vocational training.

Findings

A study of the data collected leads to the following conclusions:

a. Availability of Records at Post Secondary Institutions

Records of 60% of the cases were not available (Enclosure 2)

b. Employment of Terminal High School Students in Area of Training or in a Related Area

(1) Considering all districts, an average of 47% of the terminal high school vocational students obtain entry occupation jobs in the area for which trained or in a related area. This average remains approximately constant when the districts are categorized by size or when categorized by whether or not a Vocational Director is employed. (Enclosure 1)

(2) There is a large variation among individual districts in the number of terminal vocational students placed in the same or related occupations to those for which trained. The percentages run from a high of 100% (South Sanpete) to a low of 15% (Juab) (Enclosure 3)

c. High School Programs of Vocational and Technical Students in Weber State College and the Utah Technical College at Salt Lake in Drafting, Auto Mechanics, Machine Shop, Office Occupations, and Electronics

About 65% of these students have had high school training in the same field, 35% in an unrelated field, and 30% have had industrial arts training. (Enclosure 2)

d. Cost Per Terminal High School Student Entering the Same or Related Occupational Area

(1) Considering the 36 reporting districts, the equivalent vocational funds provided each district during the 1965-1966 school year, and the number of terminal students entering the same or related occupations for which trained, the average cost per student is $753. This cost per student varies greatly from district to district, ranging from a high of over $6,000.00 per student for Kane and Millard to a low of less than $150.00 for North Sanpete and North Summit. (Enclosure 4). This cost per student can be considered as one measure of the efficiency of the vocational education program in a district.

Additional Research Recommended

It is recommended that this study be expanded to:

a. Ascertain what percentage of the post-secondary graduates are going into entry jobs in the same or related occupations to their field of study.

b. Determine the number of vocational students who go into post-secondary vocational and technical programs, and use this additional information to compute a more complete cost effectiveness index for the vocational program in each district.

STATUS OF UTAH HIGH SCHOOL TERMINAL VOCATIONAL STUDENTS
(CLASS OF JUNE 1966)

	Number Employed and/or Available	Number Employed Full Time in Occupation for which Trained	Number Employed Full Time in Related Occupation	Number Employed Full Time in Unrelated Occupation	Number Employed Part Time (Not in School)	Average Cost Per Student Placed in Same or Related Occupations
Recap of Districts with 75 or more "Employed and/or Available"	1,452	429 (30%)	246 (17%)	354 (24%)	55 (4%)	$641
Recap of Districts with 25 to 75 "Employed and/or Available"	515	154 (30%)	103 (20%)	174 (34%)	5 (1%)	$812
Recap of Districts with less than 25 "Employed and/or Available"	142	42 (30%)	27 (20%)	42 (30%)	8 (5%)	$1,391
Recap of Districts without Vocational Directors	72	12 (17%)	26 (36%)	24 (33%)		$879
Recap of Districts with Vocational Directors	2,060	618 (30%)	351 (17%)	560 (27%)	68 (3%)	$748

Enclosure 1

PREVIOUS VOCATIONAL HISTORY OF POST-SECONDARY STUDENTS IN FIVE VOCATIONAL AREAS

Enclosure 2

School	Number Cases Examined	No. Cases Rejected: No Records	Number Cases Considered	Courses Considered	No. with Previous H.S. Training in Same Field	No. with Previous H.S. Training in Unrelated Field	No. with H.S. Indv. Arts Trng.	No. with No H.S. Voc.Trng.
Weber	18	8 (44%)	10	Drafting	8 (80%)	2(20%)	3(30%)	0
State	121	56(46%)	65	Auto Mechanics	42(65%)	23(35%)	38(58%)	0
College	11	5(45%)	6	Machine Shop	5(83%)	1(17%)	2(33%)	0
	270	123(46%)	147	Office Occupations	122(83%)	25(17%)	13(9%)	0
	143	84(59%)	59	Electronics	45(76%)	14(24%)	30(51%)	0
Sub Total	563	276(49%)	287		222(77%)	65(23%)	86(30%)	-
Utah	65	35(54%)	30	Drafting	21(70%)	9(30%	11(37%)	0
Techn.	121	71(59%)	50	Auto Mechanics	26(52%)	24(48%)	22(44%)	0
College	81	49(60%)	32	Machine Shop	16(50%)	16(50%)	11(34%)	0
at Salt	172	115(67%)	57	Office Occupations	43(75%)	13(23%)	1(2%)	1
Lake	326	249(76%)	77	Electronics	15(19%)	61(79%)	28(36%)	1
Sub Total	765	519(68%)	246		121 (49%)	123(50%)	73(30%)	2
Grand Total	1,328	795(60%)	533		343(64%)	188(35%)	159(30%)	2

	Number employed and/or available	Employed full-time in occupation in which trained No. (%)	Employed full-time in related occupation No. (%)	Employed full-time in unrelated occupation No. (%)	Employed part-time -- not in school No. (%)	Unemployed No. (%)	Status unknown No. (%)	Average cost per student
Alpine	118	48 (41)	15 (13)	28 (24)	6 (5)	5 (4)	15 (13)	
Beaver	23	5 (22)	1 (4)	14 (61)	0 (0)	3 (13)	0 (0)	
Box Elder	66	22 (33)	19 (29)	25 (38)	0 (0)	0 (0)	0 (0)	
Cache	51	17 (33)	9 (18)	17 (33)	0 (0)	1 (29)	7 (14)	
Carbon	52	28 (54)	6 (12)	8 (15)	- --	8 (15)	2 (4)	
Daggett								
Davis	187	66 (35)	29 (16)	57 (30)	3 (2)	9 (5)	22 (18)	
Duchesne	12	3 (25)	0 (0)	7 (58)	- --	- --	1 (8)	
Emery	15	3 (20)	7 (50)	5 (33)	- --	- --	-- --	
Garfield								
Grand	29	13 (45)	1 (3)	2 (7)	0 (0)	5 (17)	8 (28)	
Granite	334	89 (27)	52 (16)	70 (21)	11 (3)	17 (5)	84 (25)	
Iron	28	6 (21)	3 (11)	9 (32)	2 (7)	4 (14)	4 (14)	
Jordan	144	51 (35)	40 (28)	21 (15)	9 (6)	6 (4)	17 (12)	
Juab	13	2 (15)	-- --	7 (54)	2 (15)	1 (8)	1 (8)	
Kane	2	0 (0)	1 (50)	0 (0)	0 (0)	1 (50)	0 (0)	
Millard	4	1 (25)	1 (25)	1 (25)	1 (25)	- --	- --	
Morgan	17	10 (59)	3 (18)	4 (24)	- --	- --	- --	
Nebo	48	16 (33)	22 (46)	7 (15)	- --	3 (6)	- --	
North Sanpete	30	4 (13)	13 (43)	11 (37)	- --	2 (7)	- --	
North Summit	11	5 (45)	1 (9)	2 (18)	- --	3 (27)	- --	
Park City								
Piute	9	0 (0)	3 (33)	3 (33)	2 (22)	1 (11)	- --	
Rich								
San Juan	4	0 (0)	1 (25)	1 (25)	1 (25)	- --	1 (25)	
Sevier	45	10 (22)	14 (31)	18 (40)	1 (2)	2 (4)	- ---	
South Sanpete	11	6 (55)	5 (45)	-- --	- --	- --	- --	
South Summit	7	3 (43)	-- --	4 (57)	- --	- --	- --	
Tintic	3	0 (0)	1 (33)	1 (33)	- --	1 (33)	- --	
Tooele	38	10 (26)	4 (11)	13 (34)	- --	1 (3)	5 (13)	
Uintah	48	12 (25)	-- --	32 (67)	- --	2 (4)	2 (4)	
Wasatch	15	7 (47)	2 (13)	-- --	- --	3 (20)	3 (20)	
Washington	41	2 (5)	6 (15)	22 (54)	- --	3 (7)	3 (7)	
Wayne	4	0 (0)	1 (25)	2 (50)	- --	1 (25)	- --	
Weber	187	31 (17)	29 (16)	71 (38)	5 (3)	2 (1)	47 (25)	
Salt Lake City	312	121 (39)	55 (18)	72 (23)	13 (4)	36 (12)	15 (5)	
Ogden	75	14 (19)	24 (32)	2 (3)	- --	- --	35 (47)	
Provo	95	9 (9)	2 (2)	33 (35)	8 (8)	10 (11)	19 (20)	
Logan	15	2 (13)	1 (7)	5 (33)	2 (13)	2 (13)	3 (20)	
Murray	39	14 (36)	6 (15)	10 (26)	2 (5)	3 (8)	4 (10)	
TOTALS	2,132	630 (30)	377 (18)	584 (27)	68 (3)	135 (6)	298 (14)	$753

ENCLOSURE 3

PUPILS BY DISTRICT

Cost in Vocational Funds Per Terminal Student Placed in Same or Related Subject Area

District	1965-1966 Extra DU's	1965-1966 State and Fed. Voc. Funds	Total Vocational Funds 1965-1966	1966 Grad. Employed Full Time In Same Or Related Occupation	Cost Per Student Thus Placed
Alpine	13,813	25,448	39,261	63	$ 623
Beaver	2,319	3,364	5,683	6	947
Box Elder	8,784	21,346	30,130	41	735
Cache	4,489	13,681	18,170	26	699
Carbon	8,664	7,599	16,263	34	478
Daggett	none	304	304	--	---
Davis	45,083	40,413	85,496	95	900
Duchesne	none	2,397	2,397	3	799
Emery	19,456	3,143	22,599	10	2,260
Garfield	2,723	1,527	4,250	--	---
Grand	4,556	7,426	11,982	14	856
Granite	39,999	37,834	77,833	141	552
Iron	10,194	11,100	21,294	9	2,366
Jordan	15,340	14,872	30,212	91	332
Juab	2,074	4,445	6,519	2	3,260
Kane	2,096	4,269	6,365	1	6,365
Millard	2,838	9,545	12,383	2	6,192
Morgan	570	2,639	3,209	13	247
Nebo	19,470	12,076	31,546	38	830
North Sanpete	756	1,387	2,143	17	126
North Summit	none	300	300	6	50
Park City	none	120	120	--	---
Piute	1,467	2,120	3,587	3	1,196
Rich	none	none	none	--	---
San Juan	3,048	1,151	4,199	1	4,199
Sevier	16,493	16,655	33,148	24	1,381
South Sanpete	2,690	7,404	10,094	11	918
South Summit	none	2,409	2,409	3	803
Tintic	942	621	1,563	1	1,563
Tooele	4,277	9,011	13,288	14	949
Uintah	4,943	11,085	16,028	12	1,336
Wasatch	1,768	5,747	7,515	9	835
Washington	3,628	7,587	11,215	8	1,402
Wayne	1,700	1,524	3,224	1	3,224
Weber	24,793	12,581	37,374	60	623
Salt Lake City	38,400	48,267	86,667	176	492
Ogden	15,147	17,036	32,183	38	847
Provo	26,194	17,542	43,736	11	3,976
Logan	5,369	4,276	9,645	3	3,215
Murray	7,052	7,076	14,128	20	706
			758,462		

Enclosure 4

FUNDS